



## GS9141M\_HU0001

### EFDEDUR-System-Structure Coating

#### Product description

<b>Product technology</b>	solvent-based 2-component coating	
<b>Surface</b>	Different structures are possible depending on application and viscosity.	
<b>Application</b>	For interior and exterior applications	
<b>Property</b>	Silicone-free	
<b>Drying</b>	quickly	
<b>Full drying</b>	fast complete drying	
<b>System coating structure</b>	possible (see information)	
<b>Standard-System</b>	GS1041	
<b>Substrate</b>	Steel, Aluminium	

#### General product properties

<b>Binder-Base</b>	Acrylic Resin	
<b>Colour</b>	according to FreiLacke reference sample	
<b>Gloss visually</b>	according to FreiLacke reference sample	
<b>Viscosity</b>	3000-8000 mPa*s, spindle 6, 60 revolutions/min.	DIN EN ISO 2555
<b>Density</b>	1,20-1,40 g/ml after addition of hardener	theoretical
<b>Solid mass</b>	64,5-70,5 % after addition of hardener	theoretical
<b>Solid content in volume</b>	50,0-53,0 % after addition of hardener	theoretical
<b>Reference product</b>	The specified values refer to the product GS9141MU1191.	
<b>Resistance to storage</b>	<p>approx. 24 month in original packagings at an ambient temperature of 5 to 25 °C. Open packages are to be used within a short time.</p> <p>The minimum storage stability of each batch is stated on the product label. The material does not necessarily become unusable if stored for longer than this period. However, for quality assurance purposes, an inspection of these materials is essential to ensure that they are still suitable for the intended application.</p>	

#### Application and processing

<b>Pretreatment</b>	The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, mill scale, wax and release agent residues. We recommend the use of suitable mechanical pre-treatment processes (e.g. blasting, grinding) or chemical pre-treatment processes (e.g. phosphating) according to the requirements.	
<b>Structure recommendation</b>	Substrate	Steel
	Primer	ER1912M Mixing ratio 5:1 HE0052 Dry film thickness 70-90 µm



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<b>Note before use</b>	Top coat	GS9141M Mixing ratio 6::1 HU0001 Dry film thickness 40-60 µm
<b>Hardener</b>	HU0001	
<b>Mixin ratio</b>	Parts by weight 6:1 HU0001	
<b>Thinning</b>	EFD dilution 400320 EFD dilution 400500	
<b>Processing conditions</b>	from 10 °C to 25 °C	
<b>Processing time</b>	max. 6 hrs. / 20 °C The processing time can decrease at higher temperatures and/or under pressure.	
<b>High pressure spraying</b>	Following the addition of the curing agent, set the processing viscosity in accordance with the respective application process. Depending on the desired texture, the application takes place in one (self-forming texture) or in two operations (sprinkle effect):  1.) Self-forming texture (one operation) e.g. Sata jet® Nozzle 1,5-2,0 mm Spray pressure 3-5 bar Cross coats 1-2  2.) Sprinkle effect (two operations A + B) e.g. Sata jet® Nozzle 1,5-2,0 mm Cross coats 1-2 A) Spray pressure 3-5 bar, smooth pre-spraying following the drying of the coating surface (approx. 30 min. / 20°C) B) Sprinkle the desired texture using reduced spray pressure Spray pressure 0,5-2,0 bar  By changing the spray pressure, nozzle diameter, coating viscosity, spray guns and system setting, different surface textures can be achieved. Any wearing of the nozzles and system must be taken into account. Additional application options must be tested.	
<b>Rolling/painting</b>	e.g. with microfibre roll	
<b>Electrostatic</b>	possible, system-specific	
<b>Material usage</b>	without application loss 120-135 g/m <sup>2</sup> layer thickness 50 µm after addition of hardener	theoretical
<b>Oven drying</b>	up to 100 °C possible (object temperature)	
<b>Air drying</b>	20 °C, 50 % relative humidity	
<b>Dust drying</b>	after 30 minutes (degree of dryness 1)	DIN EN ISO 9117-5
<b>Dry to the touch</b>	after 5 hours (degree of dryness 4)	DIN EN ISO 9117-5
<b>Full drying</b>	after 8 day/s (pendulum damping)	DIN EN ISO 1522



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**Cleaning of equipment** EFD dilution 400500

### Comments

<b>EFD info</b>	Further technical information can be found in the EFD Info. No. 142.
<b>Liability test</b>	Recommended performing adhesion tests if substrates painted differ from those mentioned in the product description.
<b>System Coating</b>	Can be integrated into the system coating concept as a horizontal system coating (different coatings with the same look) or vertical system coating (part of a multi-layer structure). For more information, see <a href="http://www.freilacke.de/systemlacke">www.freilacke.de/systemlacke</a> .
<b>Work-and Healthprotection</b>	The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health and Safety at Work and environmental protection can be found in the corresponding safety data sheet.
<b>Test conditions</b>	<p>All information is based on a standard climate 23/50 DIN EN 23270. All information is based on our product knowledge an experience. We have no direct influence on the application itself. Please do not hesitate to contact us for further information.</p> <p>The information provided here contains reference values and does not constitute a specification.</p>